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# Advanced Research Projects Agency - Energy (ARPA-E)

LANL Town Hall Meeting

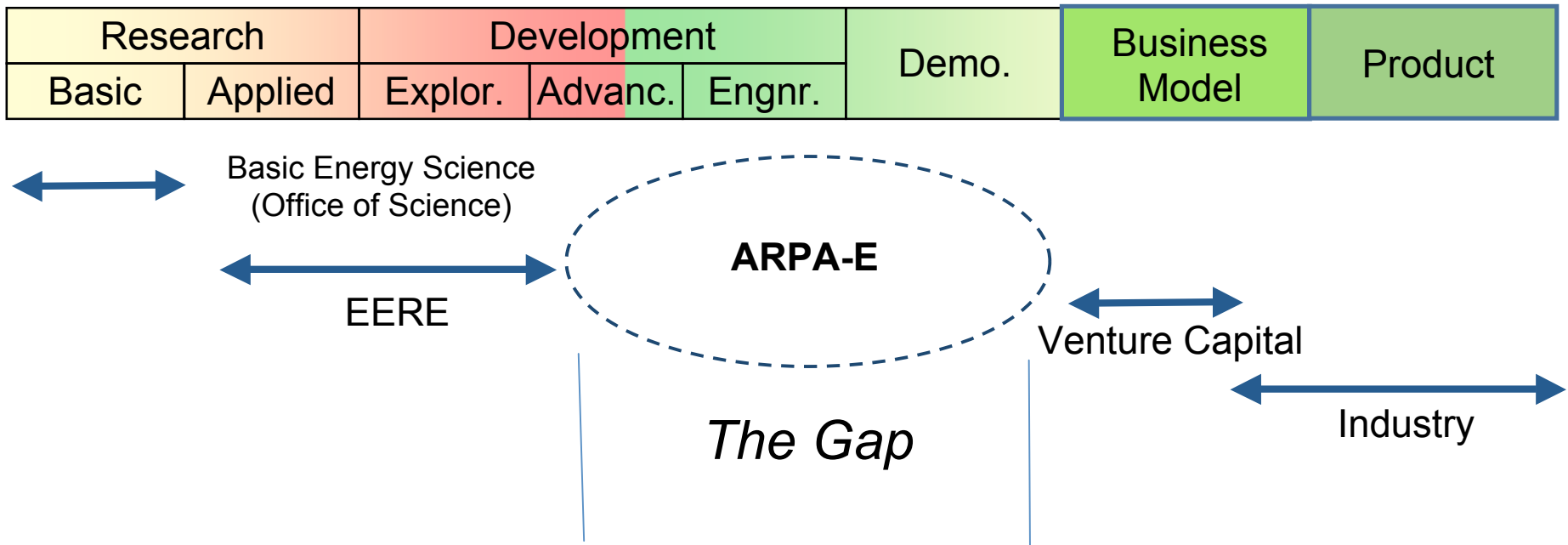
May 5<sup>th</sup>, 2009

Technology Transfer Division

[www.lanl.gov/partnerships/arpa-e](http://www.lanl.gov/partnerships/arpa-e)

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# ARPA-E in the DOE Technology Continuum



## Technology Readiness Levels

1	2	3	4	5	6	7	8	9
Basic Principles	Technology Concept	Proof of Concept	Component Validation	Field Validation	Prototype Demo.	System Demo.	System Complete	Product in use

# What is ARPA-E?

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- New organization within the DOE, chartered by Congress, to foster R&D of transformational (not incremental) energy-related technologies
- ARPA-E is part of a broader national energy strategy
- Fund transformational R&D emphasizing high-risk concepts with potential high-payoff
- Create technology breakthroughs in how energy is produced, transmitted, used and stored

# ARPA-E Mission Areas

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- 1) Enhance the economic and energy security of the U.S. by developing energy technologies that result in:
  - **Reductions of imports of energy from foreign sources;**
  - **Reductions of energy-related emissions, including greenhouse gases (GHG); and**
  - **Improvement in the energy efficiency of all economic sectors.**
- 2) Ensure that the U.S. maintains a technological lead in developing and deploying advanced energy technologies.

# What ARPA-E is Not

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- ARPA-E purpose is not to support basic research aimed at discovery and knowledge generation for its own sake
- ARPA-E will not undertake large-scale demonstration projects
- Not intended to be a substitute for existing R&D organizations within DOE

# ARPA-E Submission Requirements

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- Proposal submissions cannot be led by LANL
- Concept papers must be submitted by an external Applicant (company or university) willing to cost-share:
  - 20% for Early-Stage projects
  - 50% for Late-Stage projects
- LANL effort cannot exceed 50% of the total R&D budget

# Timeline – Important Deadlines

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- For Pre-Concept Submission to TT:

**MAY 6<sup>th</sup> - MAY 26<sup>th</sup>**

- For Concept Paper to ARPA-E:

**MAY 12<sup>th</sup> - JUNE 2<sup>nd</sup> 2009 at 8:00 PM (EST)**

***FOA STRONGLY ENCOURAGES EARLY SUBMISSION***

- Rolling deadline for full proposal submission upon invitation from ARPA-E

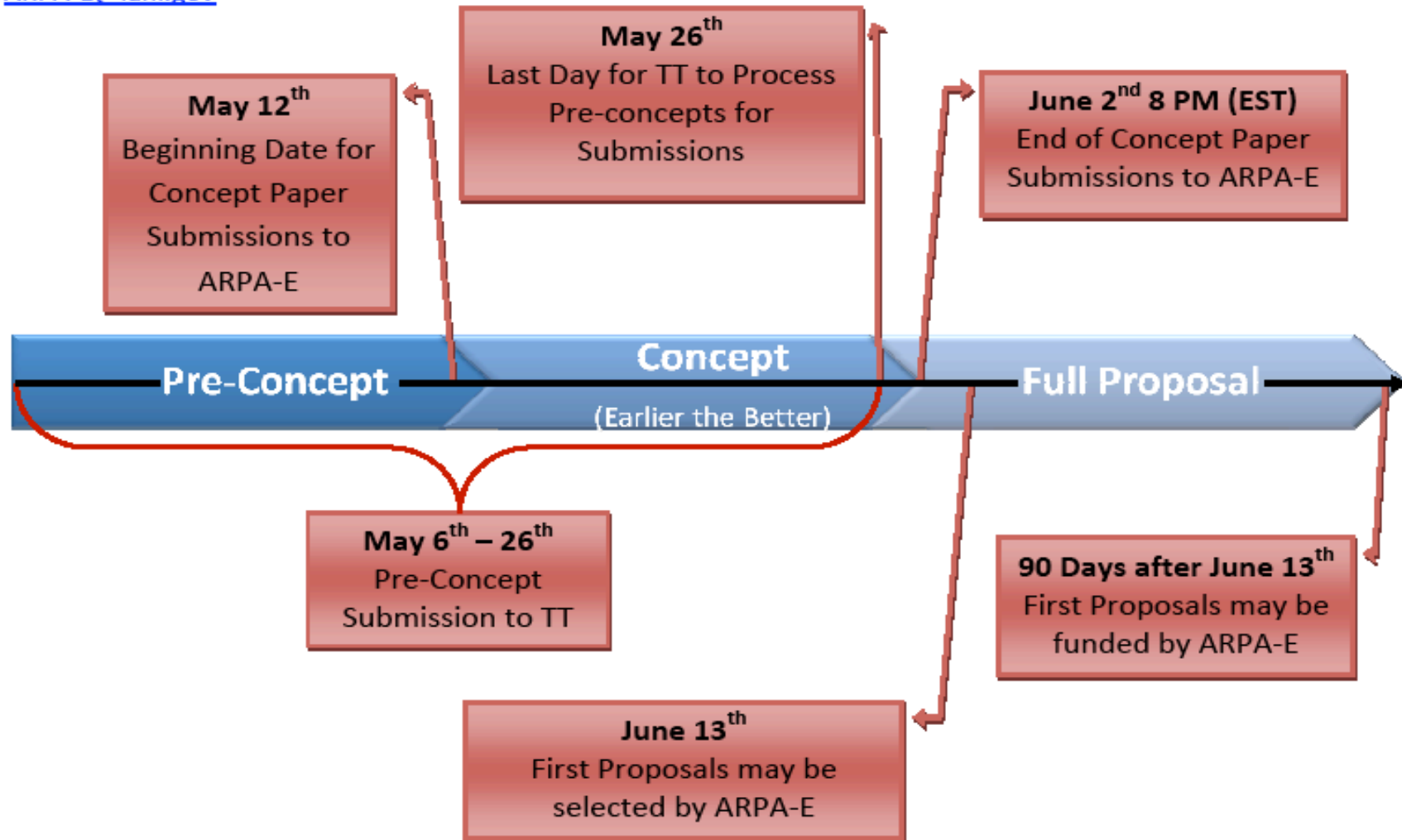
# Graphical Timeline

Please check website often for updates:

[www.lanl.gov/source/orgs/tt/arpa-e/index.shtml](http://www.lanl.gov/source/orgs/tt/arpa-e/index.shtml)

Pre-Concept Submissions:

[ARPA-E@lanl.gov](mailto:ARPA-E@lanl.gov)





# Estimated Funding Levels

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- Most awards will be for total project costs in the range of \$2M - \$5M over 24 – 36 months
- Some may be as low as \$500k or as high as \$10 million
- Initial ARPA-E Call: \$150 million

# Applicant Minimum Requirements

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- Willing to partner
- Cost-share
  - Private vs. federal funds
- Complete all registration requirements
- Be responsible for proposal submission

# LANL PI Actions

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- Identify / collaborate with a partner to develop technical content for the Concept Paper
- Estimate budget for LANL effort
- Identify Background Intellectual Property (BIP)
- Submit Pre-concept Information to TT beginning May 6<sup>th</sup> thru May 26<sup>th</sup>

# ARPA-E Elements for Success

## TT Value

- Institutional coordination
- IP Management
- Assist PIs with partner interactions
- Assist Applicants with ARPA-E submission requirements (as needed)

**Submit Pre-Concept Information to TT *and* Submit Concept Letter of Commitment to Applicant**

**Current understanding of relevant Intellectual Property (IP) position**

**Line management buy-in**

**Qualified collaboration partner(s)**

**Transformational energy concept**

# IP Issues

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- Preliminary Guidance: Field Work Proposals (FWPs) will govern contractual participation and LANL IP
- TT anticipates further guidance from DOE regarding IP rights

# Final Practical Messages

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- If you have not yet identified a cost-share partner, it is likely that you are not ready for this call
- NDA may be required by company prior to detailed technical discussions
- IP questions - unknowns are being worked
- IP plans – addressed with appropriate mechanisms
- FWP submission required with full proposal submission
- Stimulus reporting required if project is funded

# ARPA-E Mechanics & TT Resources

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- TT Contacts:
  - Laura Barber, [ljbb@lanl.gov](mailto:ljbb@lanl.gov), 7-9266
  - David Pesiri, [pesiri@lanl.gov](mailto:pesiri@lanl.gov), 5-7279
  - John Russell, [jrussell@lanl.gov](mailto:jrussell@lanl.gov), 5-3941
  - Kathleen McDonald, [kathleen\\_m@lanl.gov](mailto:kathleen_m@lanl.gov), 7-5844
  - John Mott, [jmott@lanl.gov](mailto:jmott@lanl.gov), 5-0883
- Email: [ARPA-E@lanl.gov](mailto:ARPA-E@lanl.gov)
- Website: [www.lanl.gov/partnerships/arpa-e](http://www.lanl.gov/partnerships/arpa-e)

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# Q&A

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